



PlayStation 3 Heat Sink Replacement

Replace the heat sink on your PS3.

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INTRODUCTION

Use this guide to replace your PlayStation 3's heat sink. Before reattaching the heat sink, it is essential to apply a new layer of thermal paste.



TOOLS:

- [Arctic Silver ArctiClean](#) (1)
- [Arctic Silver Thermal Paste](#) (1)
- [Phillips #0 Screwdriver](#) (1)
- [Phillips #1 Screwdriver](#) (1)
- [Spudger](#) (1)
- [T10 Torx Screwdriver](#) (1)



PARTS:

- [Sony PlayStation 3 Heat Sink Clamps](#) (1)
- [Sony PlayStation 3 CECHG Heat Sink](#) (1)

Step 1 — Smart Plate



- Use the tip of a spudger to remove the black rubber screw cover from the side of the PS3.
- ❗ The screw cover may be underneath a warranty sticker. This sticker will change appearance, and show "VOID" after it has been removed.

Step 2



- Remove the single 8.5 mm T10 Security Torx screw from the smart plate.


Step 3



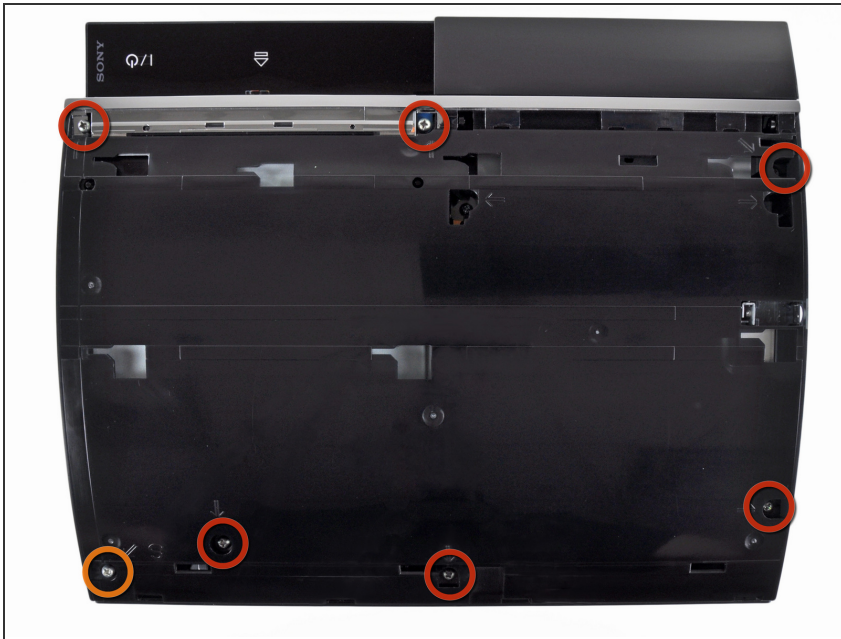
- Pull the smart plate toward the hard drive bay, then lift it off the body of the PS3.

Step 4



 Be sure to keep track of the small metal bracket loosely held in the top cover, if equipped.

Step 5 — Top Cover



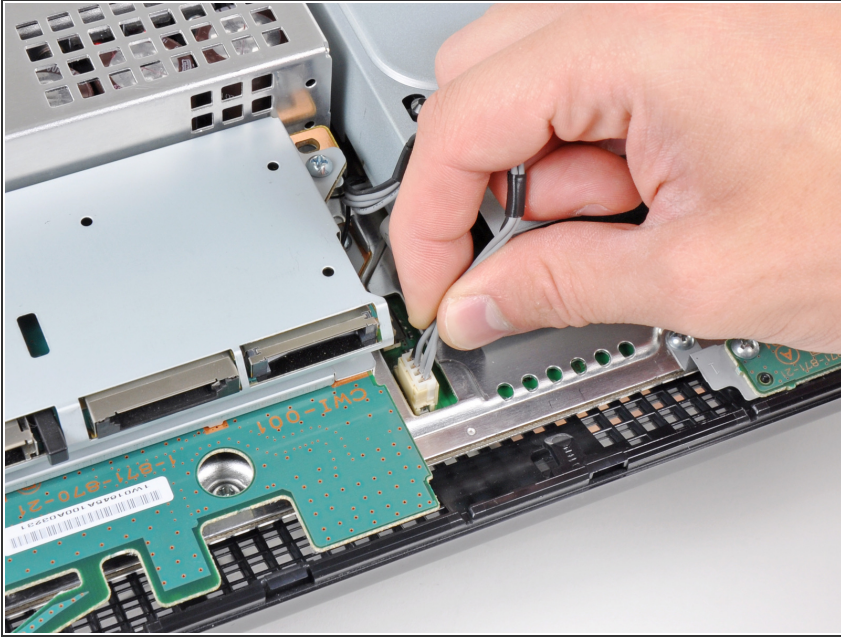
- Remove the following seven screws:
 - Six 52 mm Phillips screws
 - One 30 mm Phillips screw

Step 6



- Lift the top cover from its rear edge and rotate it toward the front of the PS3.
- Remove the top cover.

Step 7 — Blu-ray Disc Drive



- Disconnect the Blu-ray power cable from the motherboard.
- ⓘ Pull the connector straight up and out of its socket.

Step 8





- Lift the Blu-ray drive from the edge nearest the power supply and rotate it away from the chassis enough to access its ribbon cable.

Step 9

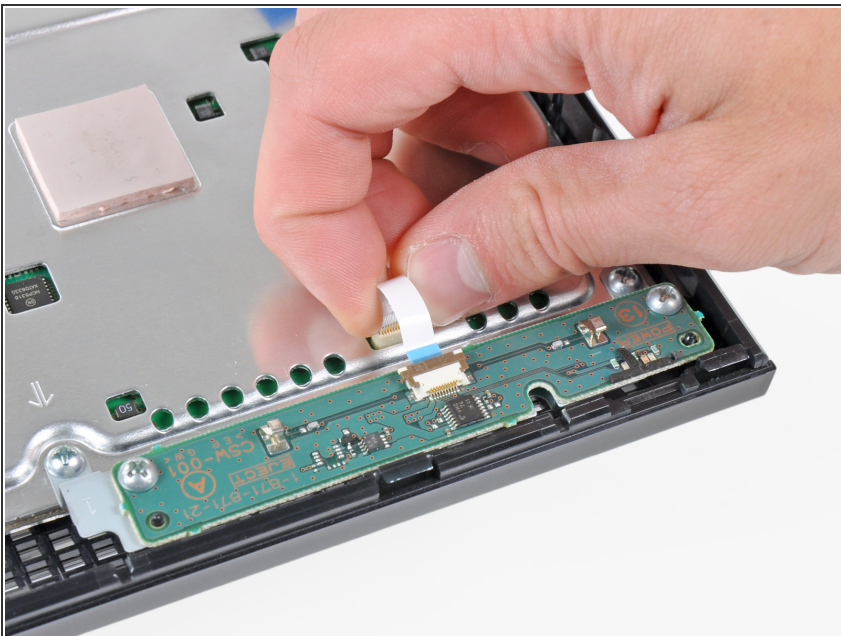


- Use your fingernail to flip up the retaining flap on the Blu-ray ribbon cable socket.

 Be sure you are prying up on the retaining flap, **not** the socket itself.

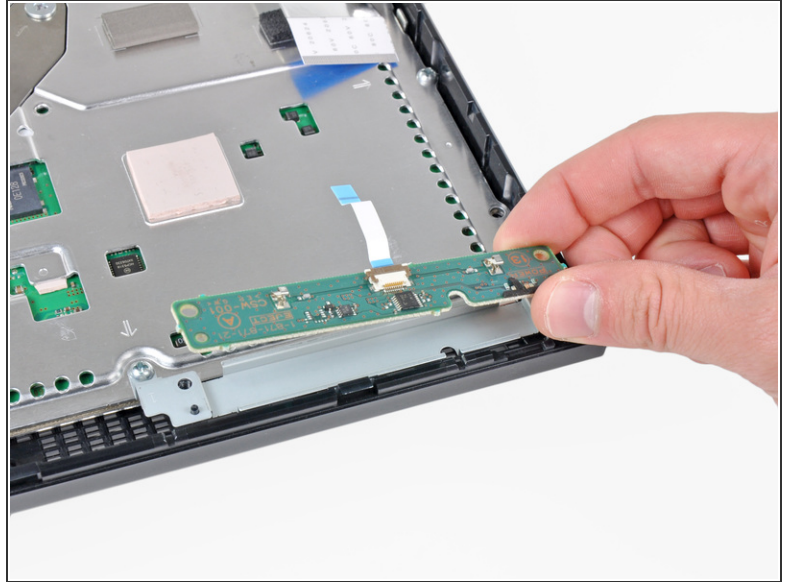
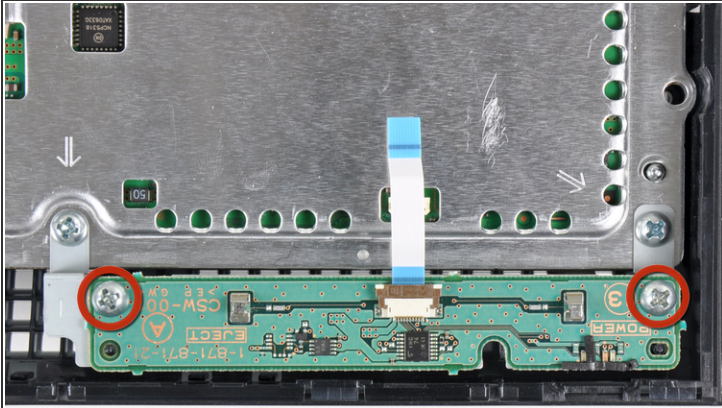
- Pull the ribbon cable out of its socket.
 - Remove the Blu-ray drive from the PS3.
-  If replacing the Blu-ray drive, transfer the power cable to your new drive.

Step 10 — Motherboard Assembly



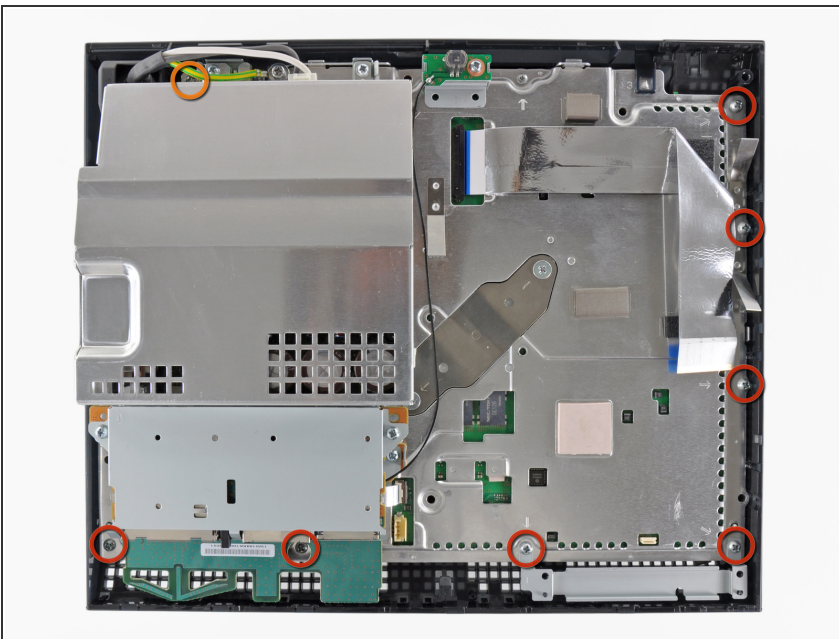
- Pull the control board ribbon cable straight up and out of its socket on the motherboard.

Step 11



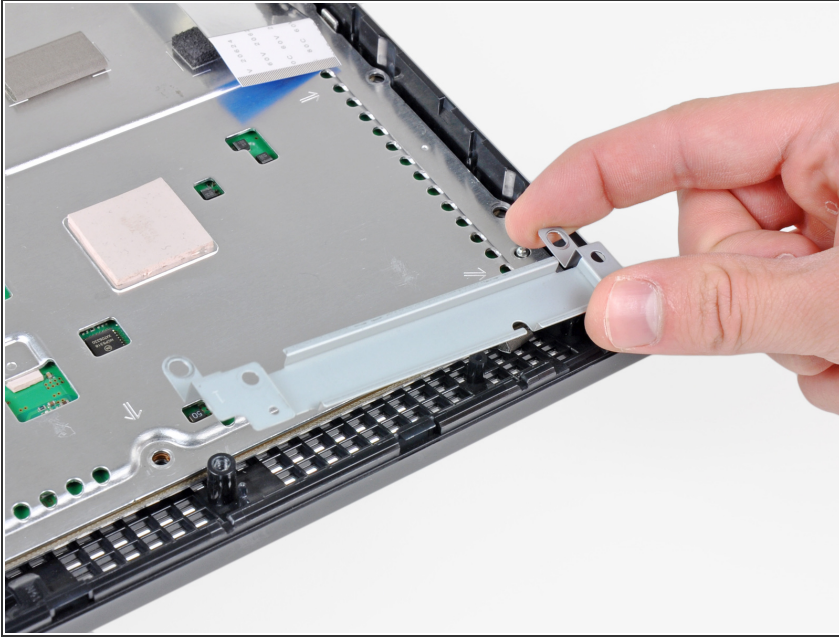
- Remove the two 12 mm Phillips screws securing the control board to the lower case.
- Remove the control board and its attached cable from the PS3.

Step 12



- Remove the following eight screws securing the motherboard assembly to the lower case:
 - Seven 12 mm Phillips screws (ph2)
 - One 30 mm Phillips screw

Step 13



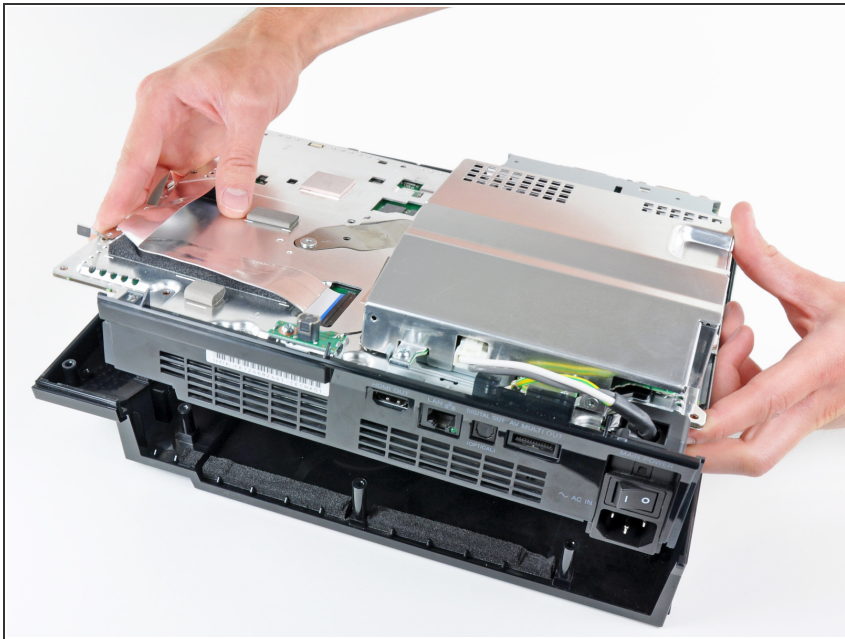
- Remove the control board bracket.

Step 14



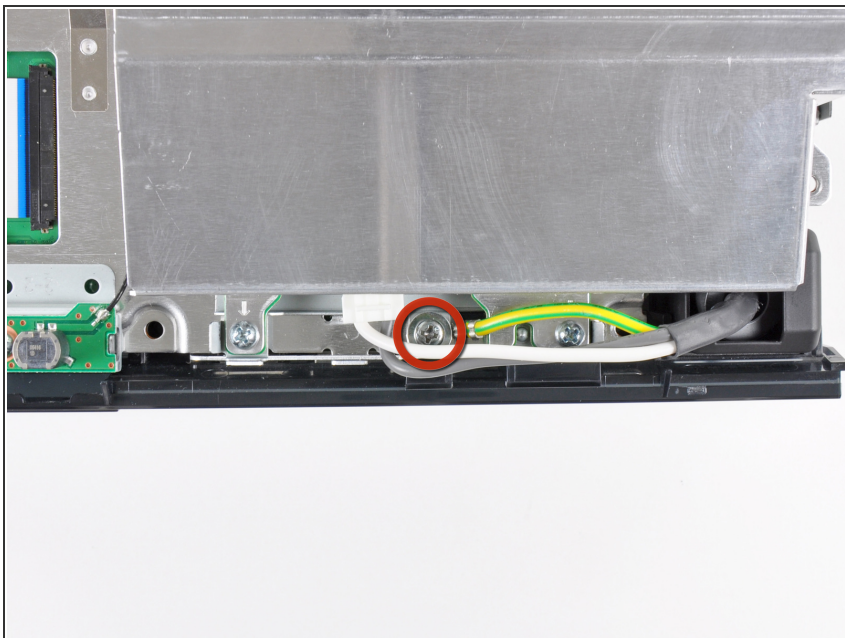
- Use the flat end of a spudger to pry the hard drive bay cover away from the lower case.
- Remove the hard drive bay cover.

Step 15



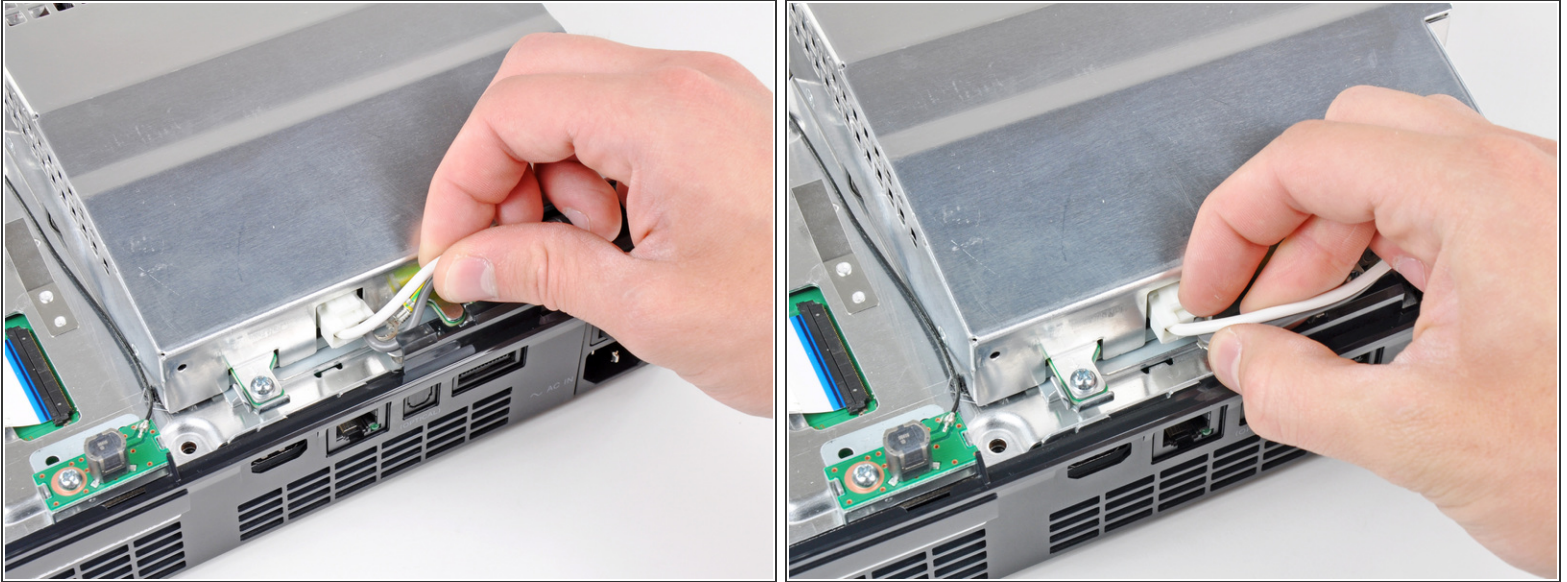
- Lift the motherboard assembly out of the lower case.

Step 16 — AC Inlet



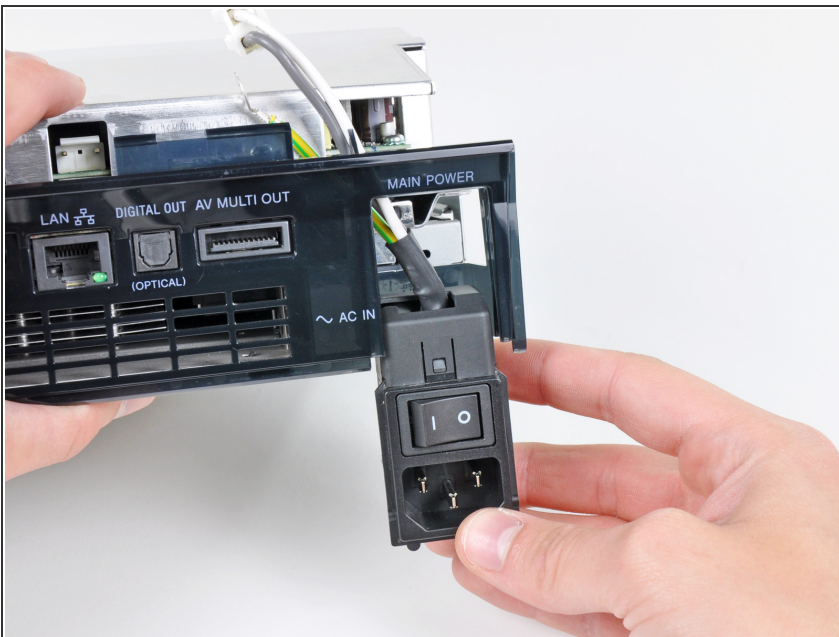
- Remove the 7.7 mm Phillips screw securing the ground strap to the chassis.

Step 17



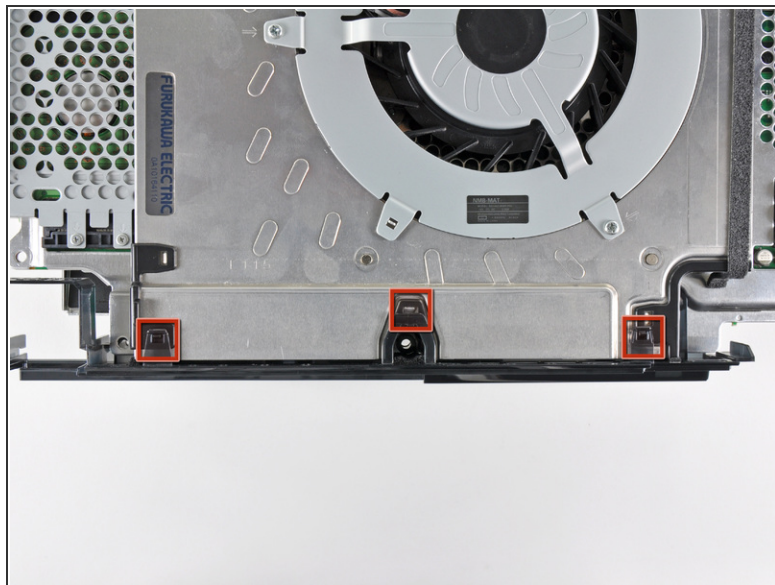
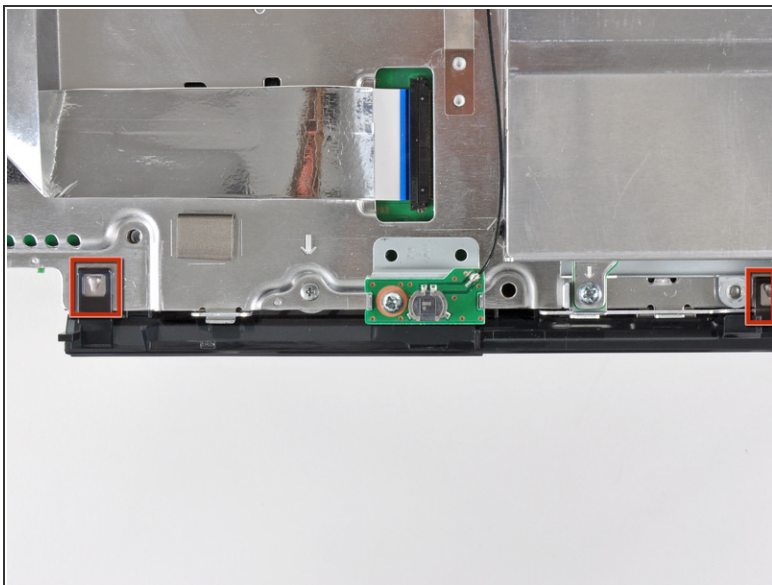
- Pull the AC-In cables slightly away from the rear cover for clearance to access the AC-In connector.
- While depressing its locking mechanism, pull the AC-In connector out of its socket on the power supply.

Step 18



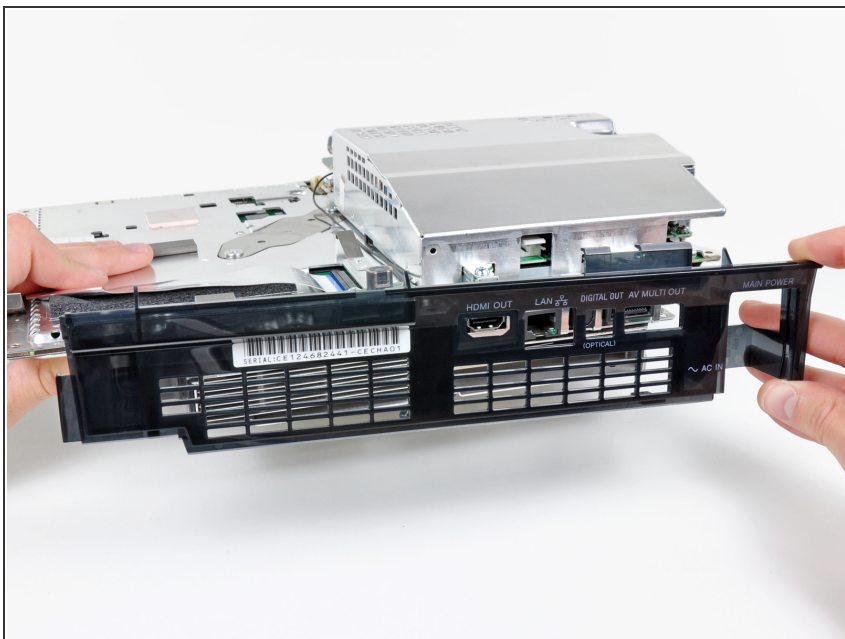
- Pull the AC inlet out from the bottom of the rear cover, minding any of its cables that may get caught.

Step 19 — Rear Cover



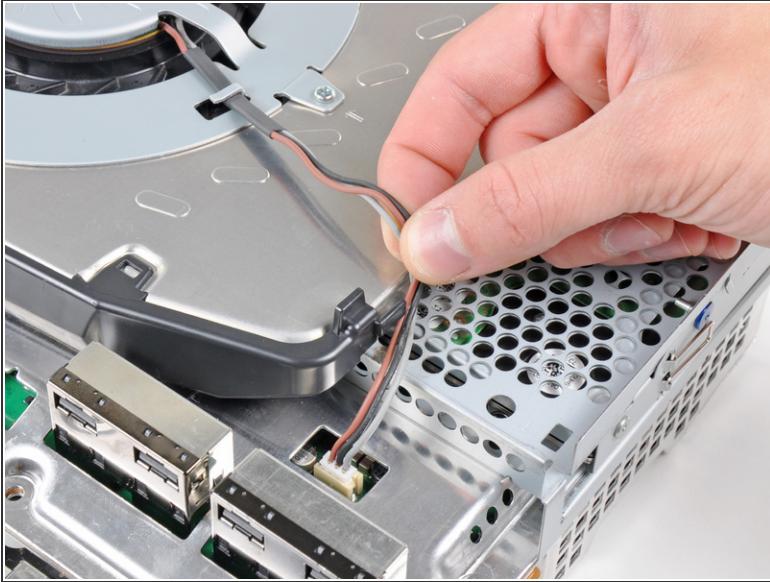
- While lightly pulling the rear cover away from the logic board assembly, use the flat end of a spudger to release the clips along the top and bottom edges of the rear cover.

Step 20



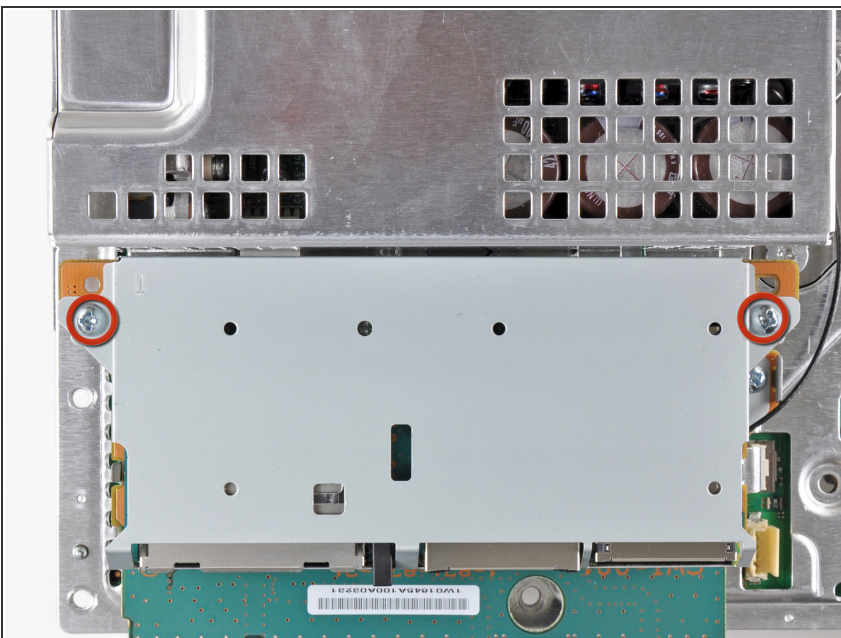
- Remove the rear cover from the logic board assembly.

Step 21 — Heat Sink



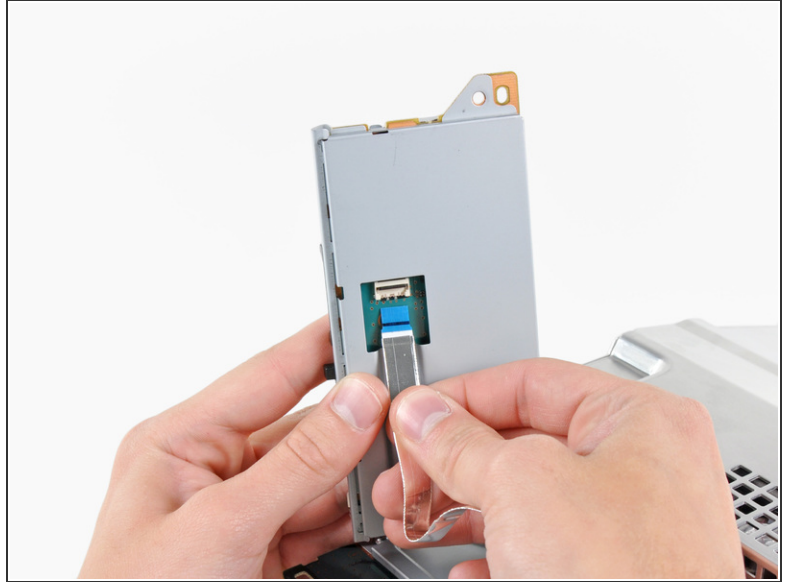
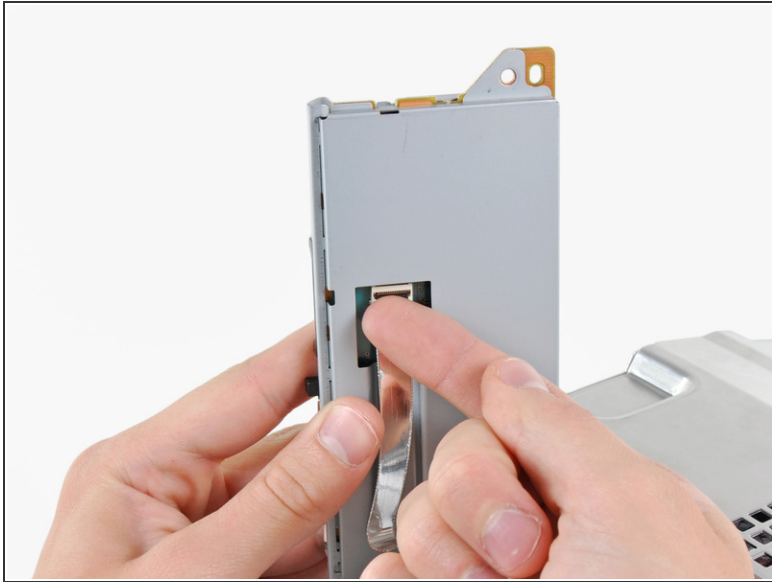
- De-route the fan cables from the plastic finger molded into the heat sink.
- Disconnect the fan from the motherboard.
- ⓘ Pull the connector straight up and out of its socket.

Step 22



- Remove the two 9 mm Phillips screws securing the memory card reader to the chassis.

Step 23



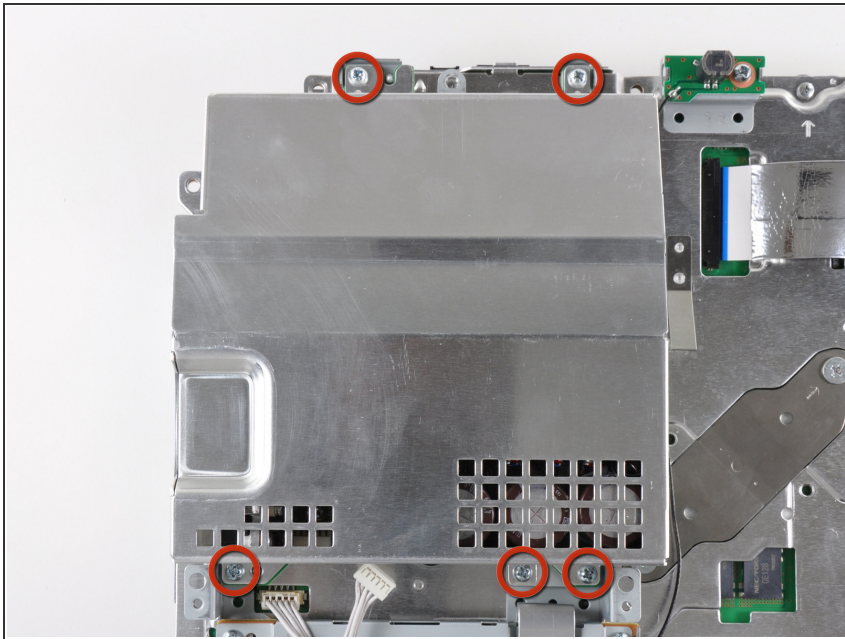
- Lift the memory card reader out of the PS3 enough to access its ribbon cable.
 - Flip up the retaining flap on the memory card reader ribbon cable socket.
- ⚠ Be sure you are prying up on the retaining flap, **not** the socket itself.
- Pull the ribbon cable out of its socket and remove the memory card reader.

Step 24



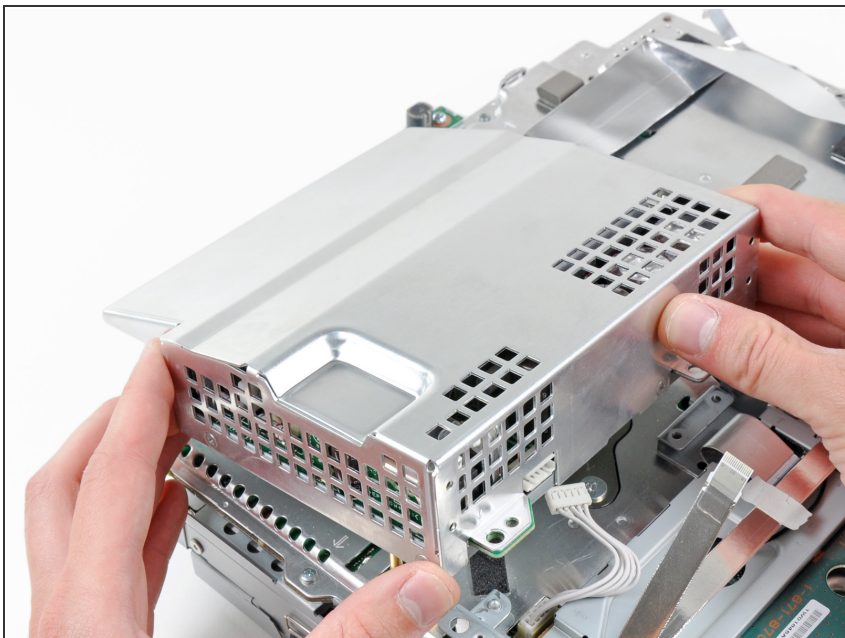
- Disconnect the DC-In cables from the front of the heat sink.
- ⓘ Pull the connector toward the front of the PS3.

Step 25



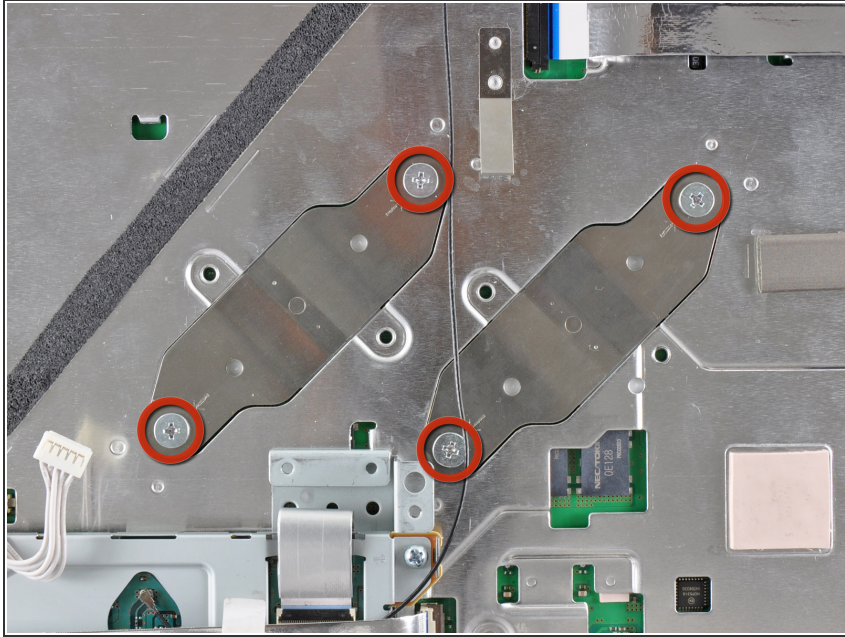
- Remove the five 9 mm Phillips screws securing the power supply to the chassis.

Step 26



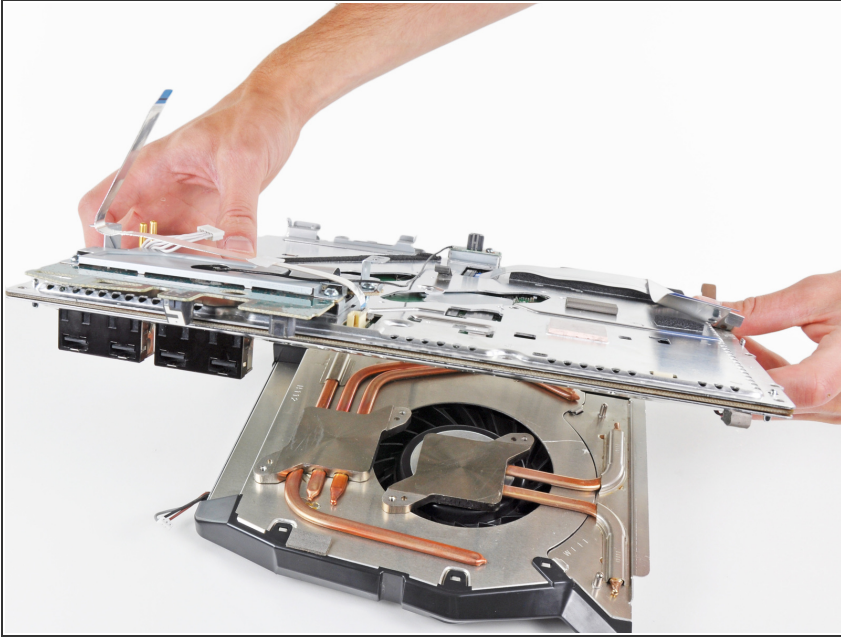
- Lift the power supply by its front edge to clear the two posts attached to the motherboard.
- Remove the power supply.

Step 27




- Remove the four 16.5 mm shouldered Phillips screws securing the heat sink to the motherboard.
- Remove the two brackets held under the screws you just removed.


Step 28




- Lift the motherboard assembly off the heat sink.

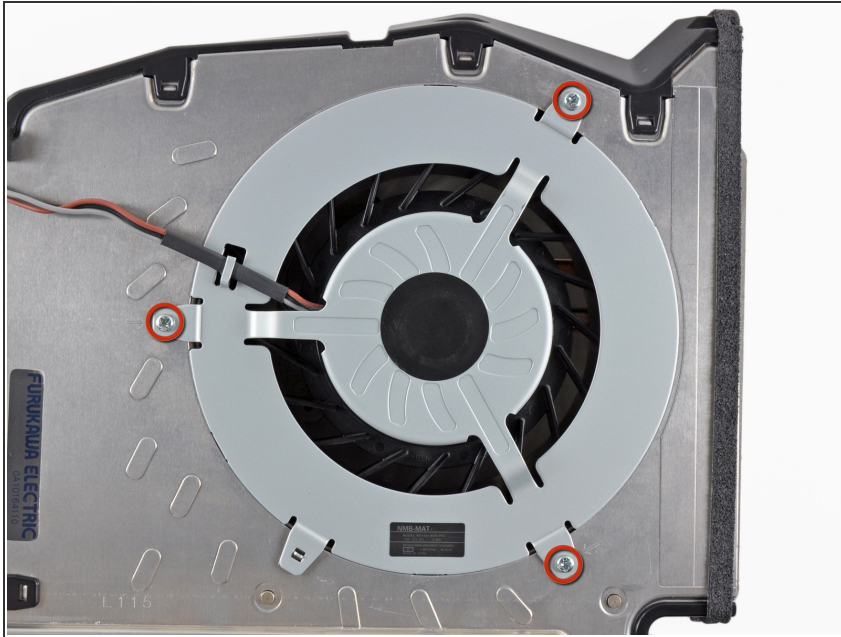
 The heat sink may still be held in place by the thermal paste. If this is the case, gently pry the heat sink away from the motherboard housing. Make sure to not bend the copper piping on the heat sink.

- Be sure to apply a new layer of thermal paste when reattaching the heat sink.

 Never applied thermal paste before? Our [thermal paste guide](#) makes it easy.

-  If you're following the YLOD repair guide, stay tuned for where to apply the replacement thermal paste.

Step 29 — Heat Sink



- Remove the three 5.7 mm #0 Phillips screws securing the fan to the heat sink.

Step 30



- Remove the fan from the heat sink, minding its cables that may get caught.

To reassemble your device, follow these instructions in reverse order.